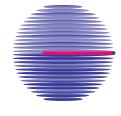


federal energy management program

Economic Evaluation of DER

Edward J. Henderson

Energy OptionsAlbuquerque, New Mexico



Do you have an Energy Strategy?

Popular Press

-- " ... competition is a good thing"

Utility Outage

-- Availability (at your TOU)

Needs Changing

-- Changing Needs

Budget Cycle

-- Hidden Cash

Energy is an increasing component of enterprise cost and can contribute to business risk.

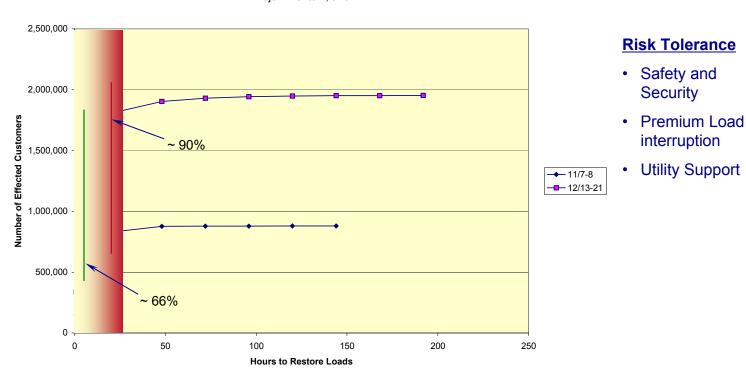
Popular Press – EEI Action Alerts

- Indiana URC approves PSI Power Purchase from Merchant Affiliate
- Illinois Lawmakers approve bill to extend freeze on residential Rates
- Nevada PUC denies 27% of SPP's deferred Energy Costs

- ✓ Energy issues are common in Regulated and un-Regulated regions.
- Pricing policy can be independent of the volume of energy consumed.

Outage Risk Mitigation

PG&E 2002 Major Events 1, and 2



Valuation { f(Drivers) }

- Energy is an increasing component of enterprise cost and can contribute to business risk.
- Energy issues are common in Regulated and un-Regulated regions.
- Pricing policy can be independent of the volume of energy consumed.

-- CHP Value Facility integrated, on-site generation of

Energy

-- Fuel Alliance Tariff-based Pricing

-- Outage Risk Mitigation Physical and Financial Hedge as part of

Demand-side and Supply-side Energy

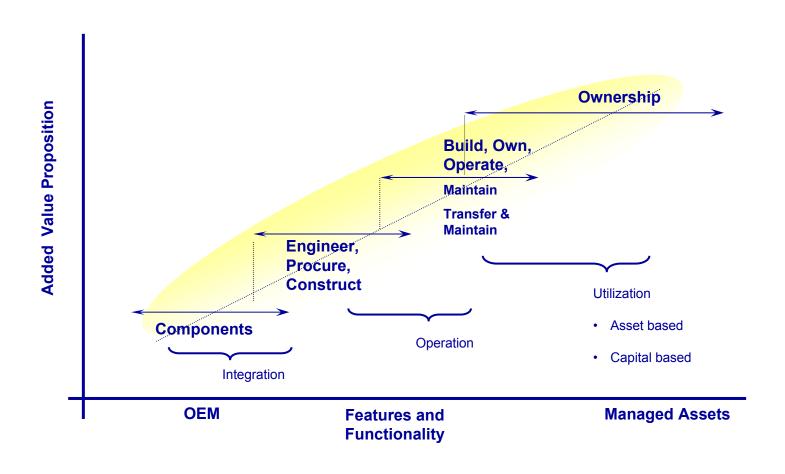
Independence.

Valuation Process Template

- Establish a basis of comparison relative to the Status Quo.
- Prospective and Future Energy Requirements.
- Integrate the Business and Operating Environment.
- Summarize the likely Financial Consequences.

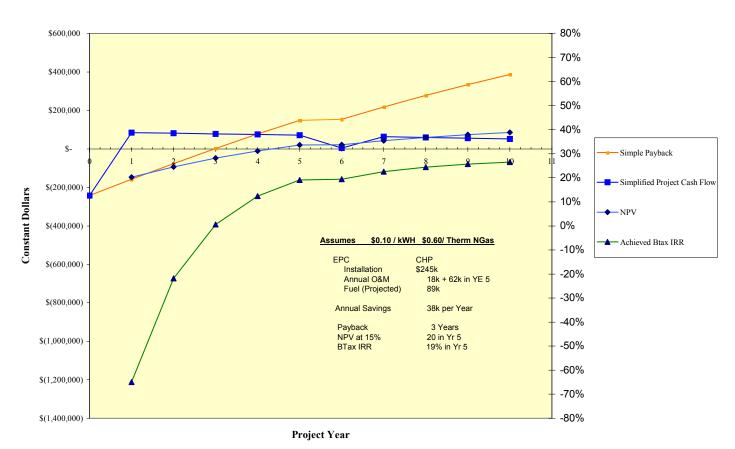
Establish an Energy Team

Energy (Implementation) Team



Financial Consequences

Project Economics --- 250 kW IC with Heat Recovery



Summary

- Legitimize your energy strategy as part of your annual business planning cycle
- Establish an "Energy Team" to assure a complete solution
- Augment your Team with Professional Energy Consultants
- Consider an RFP as part of the procurement process.
- Make your decision audit-able .. Keep clear records of the criteria used.

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